

REMARKS

Claims 1-12 and 15 are pending in the present Application.

Claims 1 and 7 have been amended to further claim the present invention.. No new matter has been introduced by these amendments as support can at least be found in the specification on p. 6, line 30 to to p. 7, line 3.

Reconsideration and allowance of the claims are respectfully requested in view of the above amendments and the following remarks.

Examiner Interview

Applicant thanks the examiner for the courtesy of a telephonic interview on 1/8/08 with Applicant's representative, Sandra Shaner. The outstanding §101 and §112 rejections and possible amendments to overcome those rejections were discussed.

Sequence Rules Compliance

The Examiner stated in the Office Action that the computer readable form (crf) of the sequence listing was still defective and that a new statement under C.F.R. § 1.821(f) needs to be filed together with the sequence listing filed on 4/4/07.

Applicant notes that a statement under C.F.R. § 1.821(f) was submitted together with a sequence listing on August 8, 2007, and is present in the image file wrapper (IFW). However, the statement was initially mis-indexed in the IFW as a "Transmittal to TC" rendering it difficult to locate.

As the statement and sequence listing were both submitted on 8/8/07, Applicant asserts that the application is fully compliant with the sequence listing rules.

Claim Rejections Under 35 U.S.C. § 101

Claims 1-6 and 12 stand rejected under 35 U.S.C. § 101, because the claimed invention is directed to non-statutory subject matter. Applicants respectfully traverse this rejection.

Claim 1 is amended to clarify that the storage unit is "for" storing a crosslink map. Applicant requests reconsideration and withdrawal of this rejection of the apparatus of claims 1-6.

Claim 12 was rejected under 35 U.S.C. § 101 for allegedly reading on a carrier wave or signal.

Applicant notes that the last line of claim 12 specifically recites that the computer readable medium is NOT a carrier wave. This element was added to the claim in an amendment filed on December 28, 2006. In the subsequent Office Action, the original rejection was not reiterated, nor was any objection or rejection to the insertion of this element raised.

As claim 12 does not read on a carrier wave, Applicant requests reconsideration and withdrawal of the rejection of claim 12 as directed to nonstatutory subject matter.

Claim Rejections Under 35 U.S.C. § 112, First Paragraph

Claims 1-12 and 15 stand rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. Applicants respectfully traverse this rejection.

Claims 1 and 7 are amended to clarify that the crosslink map comprises records of sequence information.

Applicants believe that with these amendments claims 1-12 and 15 meet the requirements of 35 U.S.C. § 112, first paragraph. Reconsideration and withdrawal of this rejection are therefore respectfully requested.

It is believed that the foregoing amendments and remarks fully comply with the Office Action and that the claims herein should now be allowable to Applicants. Accordingly, reconsideration and withdrawal of the objection(s) and rejection(s) and allowance of the case are respectfully requested.

If there are any additional charges with respect to this Amendment or otherwise, please charge them to Deposit Account No. 06-1130.

Respectfully submitted,

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